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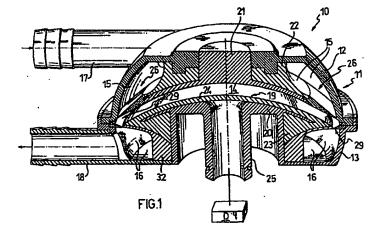
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(54) A device for the pulsed pumping of liquids, particularly blood

(57) A device for the pulsed pumping of liquids, particularly blood, has a body in which are formed a pumping chamber in which a pulsed flow is imparted to the liquid, an inlet duct upstream of the pumping chamber and communicating therewith, and a delivery duct downstream of the pumping chamber and communicating therewith. Two valve members constituted by lip valves are provided for regulating the one-way flow of fluid in the body from the inlet duct to the pumping

chamber and from the latter to the delivery duct. Low levels of hemolysis can be achieved, if the device is pumping blood. Moreover, the device has a low production cost and is quiet. The pumping device may be incorporated into a cardiopulmonary bypass device which includes a venous reservoir, a heat exchanger and an oxygenator.





EUROPEAN SEARCH REPORT

Application Number EP 96 20 0240

Category	Citation of document with i of relevant p	ndication, where appropriate,	Relevant to claim	CLASSIFICATION OF TH APPLICATION (Int.CL6)
X	WO 89 10763 A (NIME	,	1-8,11, 13,14	A61M1/10
Υ	* page 4, line 30 - * figures 2-4 *	page 5, line 28 *	15,17-19	
X	GB 2 101 232 A (CORDIS DOW CORPORATION)		1-4,7, 13,14	
Υ	* page 2, line 102 * page 3, line 62 -	- page 3, line 1 * · line 85 *	15,17-19	
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	* figure 1 *	- Tine 40 *		TECHNICAL FIELDS SEARCHED (Int.Cl.6)
]	The present search report has b	een drawn up for all claims Date of completion of the search		Exercises
	THE HAGUE	22 July 1997		eecke, A
X : part Y : part docu	CATEGORY OF CITED DOCUMER cularly relevant if taken alone cularly relevant if combined with and ment of the same category nological background	NTS T: theory or pr E: earlier pate after the fil ther D: document c	inciple underlying the at document, but publi ing date ited in the application ted for other reasons	shed on, or